

IFWO

RAW SEQUENCE LISTING DATE: 02/03/2004 PATENT APPLICATION: US/10/763,276 TIME: 10:53:44

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1 <110> APPLICANT: KYOWA HAKKO KOGYO CO., LTD.
 2 <120> TITLE OF INVENTION: Substance which inhibits binding of information
        transfer molecule for 1175-tyrosine phosphorylated KDR/Flk-1
         and usages of the same
 5 <130> FILE REFERENCE: 249-199
 6 <140> CURRENT APPLICATION NUMBER: 10/763,276
 7 <141> CURRENT FILING DATE: 2004-01-26
 8 <150> PRIOR APPLICATION NUMBER: US/09/969,037B
                                                              ENTERED
9 <151> PRIOR FILING DATE: 2002-08-30
10 <150> PRIOR APPLICATION NUMBER: JP 2000-303694
11 <151> PRIOR FILING DATE: 2000-10-03
12 <150> PRIOR APPLICATION NUMBER: US 60/263,512
13 <151> PRIOR FILING DATE: 2001-01-24
14 <160> NUMBER OF SEQ ID NOS: 7
15 <170> SOFTWARE: PatentIn Ver. 2.1
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 11
19 <212> TYPE: PRT
20 <213> ORGANISM: Artificial Sequence
21 <220> FEATURE:
22 <221> NAME/KEY: Phosphorylation
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24 <220> FEATURE:
25 <223> OTHER INFORMATION: an antigen peptide
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33 <213> ORGANISM: Artificial Sequence
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35 <223> OTHER INFORMATION: a peptide SEQ ID NO:1 without phosphorylation
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43 <213> ORGANISM: Artificial Sequence
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45 <223> OTHER INFORMATION: a primer for replacing KDR/Flk-1 tyr 1175 to phenylalanine
46 <400> SEQUENCE: 3
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RAW SEQUENCE LISTING DATE: 02/03/2004 PATENT APPLICATION: US/10/763,276 TIME: 10:53:44

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63 <223> OTHER INFORMATION: a primer for replacing KDR/Flk-1 tyr 801 to phe
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87
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88
89
                                   55
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                                               90
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102	Leu	Cys	Ala	Arg		Pro	GIU	гуѕ	Arg		vaı	Pro	Asp	GIY		Arg
103					165					170					175	
104	Ile	Ser	Trp	Asp	Ser	Lys	Lys	Gly	Phe	Thr	Ile	Pro	Ser	Tyr	Met	Ile
105				180					185					190		
106	Ser	Tyr	Ala	Gly	Met	Val	Phe	Cys	Glu	Ala	Lys	Ile	Asn	Asp	Glu	Ser
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108	Tvr	Gln	Ser	Tle	Met	Tyr	Tle	Val	Val	Val	Val	Glv	Tyr	Ara	Tle	Tyr
109	- 1 -	210				- 1 -	215					220	- 1 -	9		- 1 -
110	Λen		Val	T 011	Sar	Pro		uic	C1.,	T10	C1,,		802	Val	C1,,	Chi
111		val	vaı	Беи	Ser		Ser	птэ	Gry	TTE		ьeu	ser	vai	GIY	
,	225	T	**- 7		20	230	m)	7.1		m1	235	.			63	240
112	ьys	ьeu	vaı	Leu		Cys	Thr	. Ата	Arg		GIU	Leu	Asn	vaı		ile
113					245					250					255	
114	Asp	Phe	Asn	Trp	Glu	Tyr	Pro	Ser	Ser	Lys	His	Gln	His	Lys	Lys	Leu
115				260					265					270		
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117			275					280					285			
118	Leu	Ser	Thr	Leu	Thr	Ile	Asp	Gly	Ile	Thr	Arq	Ser	Asp	Gln	Glv	Leu
119		290					295	_				300	•		4	
120	Tvr		Cvs	Ala	Ala	Ser		Glv	Len	Met	Thr		LVS	Asn	Ser	Thr
121	305		-1-			310		011			315	_10			001	320
122		Val	Ara	Val	ніс	Glu	Lus	Pro	Phe	Val		Phe	Glv	Ser	Glv	
123	1110	VUI	1119	V ()	325	Olu	цуз	110	LIIC	330	пια	1110	ОТУ	JCI	335	1100
124	Glu	Sor	Lou	Ual		Ala	Thr	Wal	Clv		Λνα	U a 1	λκα	Tìo		71.
125	Giu	ser	ьеи	340	GIU	нта	TIIT	vaı	345	GIU	Arg	val	Arg		PIO	нта
	T	m	T		m	D	D	D		T 3 -	T	m	m	350	70	.03
126	гуѕ	Tyr		GTA	Tyr	Pro	Pro		GIU	TTE	ьys	Trp	-	ьys	Asn	GTA
127	_ ~	_	355		_	_		360		_			365		_	
128	TTE		Leu	GLu	Ser	Asn		Thr	11e	Lys	Ala		His	Val	Leu	Thr
129		370					375					380				
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132	Thr	Asn	Pro	Ile	Ser	Lys	Glu	Lys	Gln	Ser	His	Val	Val	Ser	Leu	Val
133					405			_		410					415	
134	Val	Tvr	Val	Pro	Pro	Gln	Ile	Glv	Glu	Lvs	Ser	Leu	Ile	Ser	Pro	Val
135		_		420				_	425	_				430		
136	Asp	Ser	Tvr	Gln	Tvr	Gly	Thr	Thr	Gln	Thr	ī.eu	Thr	Cvs	Thr	Val	Tyr
137	1101		435	02	- 1 -	-		440	01		200		445			- 7 -
138	Δ 1 =	Tlo		Pro	Dro	His	Hic	-	Uic	Trn	Т	Trn		LON	C1.11	Cl.
	пта	450	110	110	110	1113		116	1113	тър	тут	_	GIII	neu	GIU	Giu
139	C1		77-	7	C1	D	455	C1	70 7	77 - 7	0	460	m1	70	ъ	
140		Cys	Ата	Asn	GIU	Pro	ser	GIN	Ата	vaı		vaı	Thr	Asn	Pro	_
141	465	_			_	470	_				475					480
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147			515				•	520					525			_
148	Lys	Cys	Glu	Ala	Val	Asn	Lys	Val	Gly	Arg	Gly	Glu		Val	Ile	Ser
	_	_					_		-	_	-		_			

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154	Thr	Phe	Glu	Asn	Leu	Thr	Trp	Tyr	Lys	Leu	Gly	Pro	Gln	Pro	Leu	Pro
155				580			•	-	585		-			590		
156	Ile	His	Val	Glv	Glu	Leu	Pro	Thr	Pro	Val	Cvs	Lvs	Asn	Leu	Asp	Thr
157			595	-				600			-	-	605			
158	Len	Trp	-	Leu	Asn	Ala	Thr		Phe	Ser	Asn	Ser	Thr	Asn	Asp	Tle
159		610	-,-				615					620			1101	
160	I.e.11		Met	Glu	Len	Lvs		Δla	Ser	T.e.11	Gln		Gln	Glv	Asn	Tur
161	625	110	1100	Olu	БСи	630	21011	111α	DCI	пси	635	1,5P	OIII	ОТУ	, v	640
162		Cvc	Lou	717	Cln		7.20	Tuc	Thr	Tuc		Λrα	His	Cuc	Val	
	vai	Cys	ьеи	Ата		ASP	MIG	пур	1111		гус	ALG	птэ	Cys		vaı
163	70	C1	т	m1	645	т	C1	70	17-7	650	D	m)	T 1 -	m1	655	70
164	Arg	GIN	Leu		vaı	Leu	GIU	Arg		Ата	Pro	Thr	Ile		GTÀ	Asn
165	-	-1	_	660			_	- 3	665	~ 1	_	- 1		670	_	_
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185	-1-		9	820			F		825	-1-	r			830	5	
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188	Tla	Glu		Aen	Δla	Pho	Glv		Aen	Luc	Thr	Δla	Thr	Cve	Δra	Thr
189	116	850	ліа	тэр	лта	rne	855	116	лэр	цуз	1111	860	1111	Суз	nr y	1111
	1701		17-1	T	Mat	T 011		C1	C1	71 -	mp		C - ~	C1	114.0	7\ ~~ ~
190		MIG	val	гу	Met	870	гу	GIU	GIY	нта	875	птэ	Ser	GIU	птэ	_
191	865	т	M-+	C	C1		T	т1_	T	т1 -		т1 -	C1	112 -	112 -	880
192	АТа	ьeu	мет	ser		ьeu	гÀг	тте	ьeu		н1S	тте	Gly	нıs		ьeu
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200 201	Phe 945		Gln	Gly	Lys	Asp 950	Tyr	Val	Gly	Ala	Ile 955		Val	Asp	Leu	Lys 960
202	-	Arg	Leu	Asp			Thr	Ser	Ser			Ser	Ala	Ser		
203 204	Phe	Val	Glu	Glu	965 Lys	Ser	Leu	Ser	Asp	970 Val	Glu	Glu	Glu	Glu	975 Ala	Pro
205 206	C1	7.00	T 011	980	T ***	700	Phe	T 011	985	T 0	C1	Ui o	T 0.11	990	C	П
207	GIU	Asp	995	туг	гуѕ	Asp	rne	1000		ьeu	GIU	UTS	1005		Cys	ıyı
208 209	Ser	Phe 101		Val	Ala	Lys	Gly 1015		Glu	Phe	Leu		_	Arg	Lys	Cys
210	T10			7) cm	T 011	ת ו ת	Ala		7 cn	Tlo	T 011	1020		Clu	T ***C	7) cn
211	102		Ary	nsp	теп	1030		Arg	MSII	TTE	103		Ser	Giu	гуз	1040
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214	Pro	Asp	Tyr		-	Lys	Gly	Asp		_	Leu	Pro	Leu	_		Met
215		_		1060			_	_	106					1070		
216	Ala	Pro			lle	Phe	Asp			Tyr	Thr	lle			Asp	Val
217	т	C	1075		17-1	T	T	1080		т1.	Dh.	C	1085		71 -	C
218 219	Trp	1090		GIY	vaı	Leu	Leu 1095		GIU	тте	Pne	1100		GTA	Ala	ser
220	Pro			Glv	Val	T.vs	Ile		Glu	Glu	Phe			Δra	Len	Lve
221	110		110	Ory	Val	1110		тор	OIU	Olu	111!		my	1119	Deu	1120
222			Thr	Ara	Met		Ala	Pro	Asp	Tvr		_	Pro-	Glu	Met	
223	0	J		9	112!	_				1130				020	113	-
224	Gln	Thr	Met	Leu	Asp	Cys	Trp	His	Gly	Glu	Pro	Ser	Gln	Arg	Pro	Thr
225				114		-	-		$11\overline{4}$:					1150		
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228	Gln			Gly	Lys	Asp	Tyr	Ile	Val	Leu	Pro			Glu	Thr	Leu
229		1170					1175					1180				
230			Glu	Glu	Asp		_	Leu	Ser	Leu			Ser	Pro	Val	Ser ·
231	118		6 1	~ 1	61	1190		<u>.</u>	_	_	119			_	_	1200
232 233	Cys	мет	GIU	GLu	1205		Val	Cys	Asp	1210		Pne	Hls	Tyr	Asp 121!	
234	Thr	70.1 20	Glv	Tlo			Tyr	Lou	Gln			Tuc	Δra	Tue		
235	1111	ΑΙα	Сту	1220		GIII	ıyı	Leu	122		261	цуз	Arg	1230		Arg
236	Pro	Val	Ser			Thr	Phe	Glu			Pro	Len	Glu			Glu
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239		1250					125				1	1260	_			
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242			Gly	Gly	Met	Val	Pro	Ser	Lys	Ser	Arg	Glu	Ser	Val	Ala	Ser
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RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 02/03/2004 TIME: 10:53:45

PATENT APPLICATION: US/10/763,276

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Output Set: N:\CRF4\01302004\J763276.raw

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Seq#:3; Line(s) 45

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/763,276

DATE: 02/03/2004 TIME: 10:53:45